NAME CHANGES FOR THE SEED PLANTS IN THE BAHAMA FLORA

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The author has been working in collaboration with Richard A. Howard of the Arnold Arboretum and George R. Proctor of the Institute of Jamaica towards a revision of Britton and Millspaugh's "Bahama Flora," published first in 1920 and reprinted without changes in 1962. A recent paper by the three of us (Gillis, Howard, and Proctor, 1973) has reported additions to the flora of the Bahamas based on personal collections, new collections available to us, and reports from the literature.

The present paper offers updated annotations on the correct scientific names to be applied to the species listed by Britton and Millspaugh whose work was completed under the provisions of the American Code of Botanical Nomenclature. We encourage others to use this list and its supporting bibliography, and to report additional changes or additions to me. We would particularly value contributions which specialists in non-vascular plants could make to the listings in Britton and Millspaugh for mosses and liverworts, algae, fungi, slime molds, and lichens. Our efforts will consider only the flowering plants and pteridophytes. We therefore encourage workers in these other fields of botany to update knowledge of their disciplines in the Bahamas too.

The value of lists of nomenclatural corrections has been evident to us in the work of Alain (1965) on the flora of Puerto Rico and the Virgin Islands. Additional nomenclatural changes have been obtained from monographs or the recent floras of Jamaica (Adams, 1971) and Barbados (Gooding et al., 1965). In all of these, however, the reasons for the changes of names are not always explained, requiring the curious or careful worker to reinvestigate each and every problem. I believe the explanations which accompany the changes reported here will be of value to

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other workers in subtropical New World floras and particularly in the West Indies. Reasons given for changes are usually: use of an earlier epithet, avoidance of a tautonym, replacement of a later homonym, correct application of a name, etc. When name changes have been made by others than myself, I have cited the publication upon which this information was based. Conversely, when I have had reason not to accept a particular treatment, then reasons have been stated.

The listing is by no means complete. Certain groups within the Boraginaceae, Rubiaceae, Loranthaceae, and Asclepiadaceae need intensive study and many more observations in the field, especially in such genera as *Heliotropium*, *Borreria*, *Dendropemon*, *Phthirusa*, and *Cynanchum*. A new look must be given to the genus Agave for the West Indies, inasmuch as the most recent treatment is now 60 years old (Trelease, 1913). Other groups including the ferns are being studied by others at the present time and we await publication of the conclusions of these investigators.

The Turks and Caicos Islands are politically a separate Crown Colony from the newly independent Commonwealth of the Bahama Islands. Britton and Millspaugh included all within the Bahama Flora and such is the geographical sense employed here in that it includes the Turks and Caicos Islands as well.

For ease of reference this paper will follow the order of species presented in Britton and Millspaugh's Bahama Flora, which will be Monocotyledons first, followed by the Dicotyledons, and then the Gymnosperms. Again for brevity, Britton and Millspaugh's flora is referred to by the expression B&M in the text of this paper. The figure in the left margin refers to the page in B&M on which the taxon in question is discussed. The name following the arrow (\rightarrow) is the name considered to be correct. These names are not necessarily nomenclatural or taxonomic equivalents, hence the reason for not employing an equals

sign (=). In some instances, B&M misidentified the plant or used a binomial incorrectly. Where monographs or significant studies support the use of names as they were employed in B&M, such references are cited under the generic name, e.g., *Guaiacum* (Porter, 1972).

In a few instances where the name changes have involved closely allied genera, or where the existing keys in B&M are wholly inadequate, particularly for use in the field, I have provided new keys. They are designed to employ characters of the floral, fruiting, and vegetative portions of the plant so that they can be of optimum use in working with specimens, whether living or in the herbarium, and whether reproductive or vegetative.

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Fellow at the Arnold Arboretum and I express my gratitude for this opportunity. A generous gift from an anonymous donor interested in the work on the Bahama flora made this study possible.



ing to Hotchkiss and Dozier (1949) with only Typha domingensis occurring in the Bahamas.

POTAMOGETONACEAE (ZANNICHELLIACEAE)

- 5 Potamogeton heterophyllus \rightarrow Potamogeton gramineus L. var. gramineus. On the basis of both herbarium specimens and abundant fresh material from a pond on San Salvador Island (*Gillis 8864*), I have considered all the Potamogeton material on the Islands to be the same (see Ogden, 1943).
- 5 The question of good characters, reliable under all conditions, for separating *Ruppia maritima* from *R. cirrhosa*, is still open. Various treatments have been consulted (Fernald and Wiegand, 1914; Hag-

strom, 1916; McCann, 1945; Setchell, 1946; Reese, 1962a and b; Gamerro, 1968; and Schwanitz, 1967) for specimens collected in the Bahamas. For the moment, it appears that both species seem to be present. Therefore, *R. cirrhosa* is an addition to the flora, rather than merely a different name for the species in B&M. Collectors are urged to look for *R. cirrhosa* inasmuch as flowering and fruiting material are as yet unknown in the Bahamas. An adaptation of Gamerro's key follows:

Peduncle of inflorescence more than 10 cm. (8-60 cm.), coiled until anthesis; anther sacs reniform, 1.7 mm. long; fruits rounded at apex; leaves 1 mm.

mm. broad; epidermal cells of leaves $12.5-16.0\mu$; $2n = 20 \dots Ruppia maritima$ L.

CANNICHELLIACEAE (CYMODOCEACEAE) 6 Cymodocea manatorum → Syringodium filiforme Kütz. This change of name follows Dandy and Tandy (1939) and den Hartog (1970).

6 Halodule wrightii Aschers. is indeed in the Bahamas, but so is *H. beaudettei* (den Hartog) den Hartog (1964). These two species can be separated as follows:

Leaf tips bicuspidate; leaf blades 1/3-4/5 mm. wide; leaves with linear teeth, concave on the inner side ... Halodule wrightii Aschers. Leaf tips tricuspidate; leaf blades 2/3-1¼ mm. wide; leaves with linear lateral teeth ... Halodule beaudettei (den Hartog) den Hartog.

HYDROCHARITACEAE (ELODEACEAE)

8 Halophila — consult Hartog (1959).

ALISMATACEAE

7 Echinodorus cordifolius \rightarrow Echinodorus berteroi (Spreng.) Fass. (See Fassett, 1955).

GRAMINEAE

13 There is some question among agrostologists whether Schizachyrium should be segregated from Andropogon as it was in B&M. Chase (1951) joins the two genera. For the moment, however, I shall follow treatments by Gould in maintaining them as separate genera (see Gould, 1967, 1968, and 1969).
14 Nazia aliena → Tragus berteronianus Schult. Tragus is conserved over Nazia. The species epithet changed from aliena to berteronianus because the type of Lappago alienus Spreng., the basionym, is referred to Pseudechinolaena polystachya (H.B.K.) Stapf, and not to this Bahamian plant (Chase, 1951).

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- Syntherisma filiformis \rightarrow Digitaria panicea (Sw.) 15 Urb. The species on which the epithet filiformis is based is a different species from the one of concern here. The earliest name for this species is Milium panicea Sw. which was transferred to Digitaria by Urban. The combination was made twice in the same year (1920), by Urban in February and by Fernald in June. The Urban combination obviously has priority. Digitaria is an earlier generic name than Syntherisma. 16 Syntherisma digitata \rightarrow Digitaria horizontalis Willd. Milium digitatum Sw. (1788) is the earliest basionym, but is is preoccupied in Digitaria by D. digitata Buse (1854). The next earliest name available is D. horizontalis Willd. (1809).
- 16 Syntherisma sanguinalis \rightarrow Digitaria sanguinalis (L.) Scop.
- 16 Valota insularis → Trichachne insularis (L.) Nees. Valota is inadequately published (Chase, 1951).
 18 Paspalum poiretii R. et S. → Paspalum sagetii Chase. Paspalum caespitosum → Paspalum poiretii R. et S. The work of Chase (1929) sorts out the names of these Paspalum species by typifying them. It is thus apparent that, although the name P. poiretii is still used in the Bahama flora, it must be applied to a different species from the one to which it was assigned by B&M.
- 18 Paspalum portoricense \rightarrow Paspalum molle Poir. in Lam. The change is required because of an earlier epithet (Chase, 1951).
- 18 Paspalum simpsonii \rightarrow Paspalum blodgettii Chapm. Paspalum blodgetti is an earlier name for P. simpsonii Nash, and not a synonym of P. caespitosum Chase, 1951).
- 19 Paspalum glabrum \rightarrow Paspalum laxum Lam. The change is required because of an earlier epithet (Chase, 1951).
- 20 Paspalum distichum L. is attributed by B&M to the

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Pugil. Pl. Jam., one of the dissertations of Linnaeus (1759). It actually appeared earlier in the same year in the Systema Naturae, ed 10, and should be so attributed.

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- Panicum barbinode \rightarrow Panicum purpurascens Raddi. 22 The change is required because of an earlier epithet (Hitchcock, 1936).
- 22 Panicum distantiflorum \rightarrow Setaria distantiflorum (A. Rich. in Sagra) Pilger.
- 22 Panicum chapmani \rightarrow Setaria chapmanii (Vasey) Pilger. Rominger (1962) has shown that these two species properly belong in Setaria.
- 24 Panicum dichotomiflorum \rightarrow Panicum bartowense Scribn. et Merr. These names were treated as synonymous by B&M. Hitchcock (1935) and Chase (1951) felt that they are separate species and that the Bahamian plant is P. bartowense. Fernald (1934) treated the taxon as P. dichotomiflorum var. bartowense Schribn. et Merr.) Fern. 24 Panicum coerulescens \rightarrow Panicum coerulescens Hack. ex Hitchc. This change is simply a corrected spelling. Oplismenus hirtellus (L.) R. & S. 1817 \rightarrow Oplismenus 27hirtellus (L.) Beauv., Ess. Agrost. 54, 168. 1812. An author change is needed for this earlier publication of the binomial. Chaetochloa geniculata \rightarrow Setaria geniculata (Lam.) 27 Beauv.
- Chaetochloa setosa \rightarrow Setaria setosa (Sw.) Beauv. 28
- Chaetochloa macrosperma \rightarrow Setaria macrosperma 28(Scribn. et Merr.) K. Schum. Setaria is the older and preferred name over Chaetochloa. Setaria Beauv. is conserved over Setaria Michx. Cenchropsis $mysurvides \rightarrow Cenchrus$ mysurvides 28H.B.K. Cenchropsis is not now considered distinct from Cenchrus (Chase, 1936 and Delisle, 1963). Cenchrus carolinianus \rightarrow Cenchrus incertus M. A. 29Curtis. The use of Cenchrus carolinianus in B&M was a misapplication of the name. That name is

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now considered a synonym of C. longispinus, but is correctly used for a plant not found in the Bahamas. The plant in question is C. incertus which is wide-spread in the Bahamas (DeLisle, 1963).
29 Cenchrus microcephalus → Cenchrus incertus M. A. Curtis. DeLisle (ibid.) felt that there was so little

- difference between the "endemic" race of *Cenchrus* with small fruits and the more widespread species that he treated them as conspecific. The small fruited form should be considered an insular form.
- 29 Cenchrus viridis \rightarrow Cenchrus brownii R. et S. This name change is required because of an earlier epithet (DeLisle, ibid.).
- 30 Stenotaphrum Consult Sauer, 1972.

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- 31 Aristida gyrans \rightarrow Aristida vilfifolia Henr. After publication of B&M, Aristida vilfifolia was segregated as a distinct species from A. gyrans which was the name in B&M (Henrard, 1926-33; 1929-33). It is the segregate which indeed is the one in the Bahama
 - flora.
- 31 Aristida scabra \rightarrow Aristida ternipes Cav. This change is required because of an earlier epithet.
- 32 Sporobolus indicus \rightarrow Sporobolus jacquemontii Kunth.
- 33 Sporobolus berteroanus \rightarrow Sporobolus indicus (L.) R. Br. In the Sporobolus indicus complex, there are two Caribbean species which are often confused: S. jacquemontii, which has an obtuse upper glume and is a fully tropical species, and S. indicus, which has an acute upper glume and is a more subtropical species. According to the description in B&M, these taxa have been confused (Clayton, 1964 and personal communication).
- 33 Sporobolus atrovirens \rightarrow Sporobolus bahamensis Hack. Sporobolus atrovirens is a different plant from the one in the Bahamas; it is a Mexican plant, is a perennial, and has smaller spikelets and glumes than S. bahamensis. The latter is a Bahamian endemic and an annual.

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- Sporobolus argutus \rightarrow Sporobolus pyramidatus (Lam.) 33 Hitchc. This name change is required because of an earlier basionym. The citation for Domingan dropseed-grass should be Sporobolus domingensis (Trin.) Kunth, Rév. Gram. 1, Suppl.; xvii. 1830, a citation three years earlier than that cited in B&M.
- Capriola dactylon \rightarrow Cynodon dactylon (L.) Pers. 34 Cynodon is conserved over Capriola.
- 36 Chloris polydactyla \rightarrow Chloris dandyana Adams. Adams (1971) published a new name for this plant without giving the background reasons for the illegitimacy of the original name. The background is as follows: There is a Jamaican plant with the legitimate name Andropogon barbatus L. Some time after describing this Jamaican grass, Linnaeus applied the same binomial to an East Indian grass. The epithet barbatus (referring to the East Indian species) was transferred to Chloris by Swartz, an act which pre-

vents the transfer of the Jamaican species epithet to Chloris. In the meantime, Linnaeus proposed a superfluous name for the first Andropogon barbatus, i.e., A. polydactylos. Swartz's transfer of this superfluous name to Chloris is illegitimate; hence Adams's publication of a new name for the species in the West Indies. (I should like to acknowledge personal communication from C. D. Adams and J. E. Dandy for the historical background on this matter.)

- 39 Phragmites phragmites \rightarrow Phragmites australis (Cav.) Trin. ex Steud. Clayton (1968) pointed out that the correct name for the pan-tropical reed is the combination used above.
- $Diplachne fascicularis \rightarrow Leptochloa fascicularis (Lam.)$ 39 A. Gray. Current views of agrostologists suggest that Diplachne should be contained within Leptochloa.
- Eragrostis cilaris (L.) Link $1827 \rightarrow \text{Eragrostis}$ cili-41 aris (L.) R.Br. in Tuckey, 1818. Chase (1951) recorded the earlier publication of this combination.

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42 Uniola virgata \rightarrow Leptochloöpsis virgata (Poir.) Yates. Yates (1966) has subdivided Uniola into Uniola, Chasmanthium, and Leptochloöpsis on the basis of a number of anatomical, cytological, morphological, and embryological characters. Because this species of spike-grass is considered close to Leptochloa, Yates erected Leptochloöpsis to contain it and another species from Ecuador.

CYPERACEAE

- 44 Cyperus paniculatus \rightarrow Cyperus polydactylos Rottb. These names originate from the same date and are considered to be synonymous. Corcoran (1941) chose C. polydactylos to be the inclusive name. The Bahama populations might be designated as C. polydactylos var. texensis (Torr.) Fern. (McLaughlin, 1944).
- 45 Cyperus cuspidatus → Cyperus aristatus Rottb. True C. cuspidatus does not occur in the Bahamas, but in Cuba. (See Horvat, 1941; McLaughlin, 1944). Cyperus pseudovegetus → Cyperus distinctus Steud. Cyperus pseudovegetus was a name misapplied to the plant of the Bahamas (O'Neill, 1939).
- 46 Cyperus brunneus → Cyperus planifolius L. C. Rich. This name change is required by an earlier epithet (McGivney, 1938; McLaughlin, 1944).
- 47 Cyperus ferax \rightarrow Cyperus odoratus L. var. odoratus. O'Neill (1940) demonstrated that these two names apply to the same species, and that *C. odoratus* is the earlier name. He further thought that the typical variety was the one found in the Bahamas. According to the treatment by McLaughlin (1944), the populations of *Cyperus filiformis* Sw. in the Bahamas are of the typical variety (var. filiformis).
- 49 Stenophyllus wilsonii \rightarrow Bulbostylis floccosa (Griseb.) Clark in Urb. Stenophyllus is merged with Bulbostylis in the treatment by Kral (1971). Bulbostylis floccosa is the earliest name. It is not endemic to the

Bahamas as stated in B&M, but also is found in Cuba and Hispaniola.

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- Fimbristylis diphylla \rightarrow Fimbristylis dichotoma (L.) 50Vahl. This change is required because of an earlier basionym. According to B&M, the record of Fimbristylis hirta 51 in the Bahamas is very tenuous. Neither Kral nor I have seen any material from the Bahamas. If indeed it does occur there, its more appropriate name should be F. squarrosa Vahl (see Kral, 1971). 52 Abildgaardia monostachya \rightarrow Abildgaardia ovata (Burm. f.) Kral. This change is required because of an earlier epithet (Kral, ibid.). There are cyperologists who wish to merge Dichro-53 mena with Rhynchospora. On the basis of the striking white bracts and insect pollination characteristic of Dichromena, I am, for the moment at least, retaining it as distinct.
- Rhynchospora cyperoides $\rightarrow \mathbf{R}$. cyperoides (Sw.) 54 Mart. var. cyperoides.
- Rhynchospora tracyi \rightarrow Rhynchospora cyperoides var. 54 triceps (Vahl) Bock. This treatment follows that of Kükenthal (1949).
- Rhynchospora perplexa \rightarrow Rhynchospora microcarpa 55 Baldw. ex Gray. Gale (1944) maintained that true R. perplexa was not in the Bahamas and that all the material which Britton and Millspaugh called by this name was misdetermined.
- Rhynchospora bahamensis Britt. \rightarrow Rhynchospora lin-55 deniana var. bahamensis (Britt.) Gale. Gale's treatment (ibid.) of the West Indian Rhynchospora species reduced Britton's species to a variety of the more

widespread R. lindeniana.

Rhynchospora marisculus \rightarrow Rhynchospora odorata 56 C. Wright ex Griseb. Gale (ibid.), in examining the same material which Britton and Millspaugh did, determined that the use of R. marisculus in B&M was a misapplication of the name.

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- 56 Mariscus jamaicensis \rightarrow Cladium jamaicense Crantz. Most treatments now segregate Cladium from Mariscus.
- 57 Scleria. Consult Jackson, 1949.

PALMAE (ARECACEAE)

- 59 Thrinax parviflora \rightarrow Thrinax floridana Sarg. Thrinax parviflora is an endemic species of Jamaica. Furthurmore, the treatment of Thrinax by Read in Adams (1971) will be superseded now that additional type material has been examined. The correct name for the small thatch of South Florida and the northern West Indies with leaf segments broadest at the point of fusion, with scattered, fimbriate, centrally translucent scales, and glabrous axes should be *T. floridana* (Read, personal communication).
- 59 Thrinax parviflora \rightarrow Thrinax floridana Sarg. Thri-(Jacq.) L. H. Bailey. True C. argentea may exist in the southern Bahamas, but this has yet to be demon-

strated. It is now treated as being indigenous to Hispaniola. (See Moore, 1963).

- 60 Paurotis wrightii → Acoelorrhaphe wrightii (Griseb. ex H. Wendl.) H. Wendl. ex Becc. The preferred name for the Paurotis palm, Spanish-top, or Everglades palm is now Acoelorrhaphe (Moore, 1963).
 61 Pseudophoenix vinifera → Pseudophoenix sargentii subsp. saonae (Cook) Read. True P. vinifera is in
 - digenous to Hispaniola and is not known from the Bahamas. (Read, 1968).

COMMELINACEAE

67 Commelina longicaulis → Commelina diffusa Burm. f.
67 Commelina elegans → Commelina virginica L. Name changes are made here in accord with the treatment by Brashier (1969). The following key may be more easily used than that in B&M:

Plant annual, trailing; spathes not united at the base, margins ciliate; internodes glabrous; sta-

minodes 2 Commelina diffusa Burm. f. Plant perennial, tufted and erect; spathes united at the base, margins membranous; internodes puberulent; staminodes 3 Commelina virginica L.

68 Rhoeo discolor \rightarrow Rhoeo spathacea (Sw.) Stearn. This

name change follows Stearn (1957) who discovered that the earlier epithet of Swartz applies to this plant.

AGAVACEAE (LILIACEAE) 69 Cordyline guineensis → Sansevieria hyacinthoides (L.) Druce. This change follows Wijnands (1973).

SMILACACEAE

71 Smilax. Consult Coker, 1944.

AMARYLLIDACEAE

- 78 Atamosco rosea \rightarrow Zephranthes rosea Lindl.
- 78 Atamosco cardinalis → Zephyranthes cardinalis C. Wright. Zephyranthes is conserved over Atamosco.
 79 Hymenocallis caymanensis → Hymenocallis latifolia (Mill.) Roemer. This change follows the treatment by Sealy (1954).

ORCHIDACEAE

- 83 Carteria corallicola \rightarrow Basiphyllaea corallicola (Small) Ames. Carteria is a later homonym for a genus of algae. Basiphyllaea was erected as a genus to correct this situation.
- 83 Vanilla eggersii \rightarrow Vanilla dilloniana Correll.
- 84 Vanilla articulata → Vanilla barbellata Reichb. f. This treatment of Vanilla in the Bahamas follows Correll (1950).
 84 Pelexia adnata → Spiranthes adnata (Sw.) Benth. Although Pelexia is a conserved name, it is also a generic synonym of Spiranthes (Garay and Sweet, 1972).
- 84 Pelexia setacea \rightarrow Eltroplectris calcarata (Sw.) Garay

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et Sweet. Luer (1972) changed Pelexia setacea to Centrogenium setaceum but Garay and Sweet (1972) maintained that this combination is based on an illegitimate name and therefore should be Eltroplectris calcarata (Sw.) Garay et Sweet.

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- Ibidium tortile \rightarrow Spiranthes tortilis (Sw.) L. C. 85 Rich. Ibidium is considered to be a generic synonym of Spiranthes. (Garay & Sweet, 1972).
- Ibidium lucayanum \rightarrow Spiranthes polyantha Reichb. f. 85 These names are considered synonymous by Luer (1972).
- Stenorrhynchus lanceolatus \rightarrow Spiranthes lanceolata 86 (Aubl.) Léon. Stenorrhynchus is now treated as a generic synonym of Spiranthes. (See Dunsterville and Garay, 1965).
- Ponthieva brittonae \rightarrow Ponthieva racemosa var. brit-87 tonae (Ames) Luer. Two varieties of Ponthieva racemosa occur in the Bahamas. One is the typical variety (var. racemosa) as treated by Luer (1972) and reported by him as new to the flora. Var. brittonae is the reduction made by Luer of the name in B&M. Physurus querceticola \rightarrow Erythodes querceticola 87 (Lindl.) Ames. Physurus is considered to be a generic synonym of Erythodes (Garay and Sweet, 1972). 89 Polystachya minuta \rightarrow Polystachya flavescens (Lindl.) J. J. Smith. Although the epithet minuta (from Epidendrum minutum Aubl.) is the oldest name available, it is preoccupied in Polystachya, and hence, P. flavescens must be used.
- Spathiger $rigidus \rightarrow Epidendrum$ rigidum Jacq. 89 Spathiger is considered a generic synonym of Epi-

dendrum.

 $nocturna \rightarrow Epidendrum$ nocturnum 90 Auliza Jacq. Auliza is considered a generic synonymn of Epidendrum (Dunsterville and Garay, 1965; Luer, 1972). There is much discussion among orchid taxonomists 91 whether Encyclia should be segregated from Epiden-

drum or not. For the moment, I accept the treatment of Dressler (1961; 1966) and Beckner (1970) in maintaining *Encyclia* at the generic level as in B&M.

91 Encyclia rufa \rightarrow Encyclia bahamensis (Griseb.) Britt.

et Millsp. Specimens labeled E. rufa from the Bahamas are now all best considered E. bahamensis. Encyclia rufa is, as B&M suspected, still not known from the archipelago.

- 92 Encyclia diurna \rightarrow Encyclia hodgeana (A. D. Hawkes) Beckner. This name change is required because of more complete understanding of the taxa involved. The species previously called *E. diurna* or *E. gracilis* is, in fact, a hybrid between *E. hodgeana* and *E.* tampensis. (See Beckner, 1970).
- 93 Epicladium boothianum \rightarrow Encyclia boothiana var. erythronioides (Small) Luer. Epicladium is a generic synonym of Encyclia.
- 93 Anacheilium cochleatum \rightarrow Encyclia cochleata var. triandra (Ames) Dressler. Anacheilium is a generic synonym of Encyclia.
- 95 Laeliopsis domingensis → Broughtonia lindenii (Lindl.) Dressler. This change is made in accord with the treatment by Dressler (1961).
- 95 Limodorum simpsoni → Calopogon tuberosus (L.) Britten, Stearns, and Poggenberg. This treatment follows Luer, 1972.

PICRODENDRACEAE

103 Picrodendron macrocarpum → Picrodendron baccatum (L.) Krug et Urb. in Engl. I presently have Picrodendron under study. It appears that this genus

should be placed within the Euphorbiaceae. There is likely only one species, which would be the typical one, P. baccatum.

ULMACEAE

104 Trema lamarckiana \rightarrow Trema lamarckianum (R. et S.) Blume. The gender of *Trema* should be neuter.

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MORACEAE

Ficus jacquinifolia \rightarrow Ficus perforata L. 105Ficus brevifolia \rightarrow Ficus citrifolia Mill. Recent treatments of Ficus (DeWolf, 1969 and Condit, 1969) have equated F. perforata with F. jacquinifolia A. Rich. in Sagra. Moreover, they have also equated F. brevifolia and F. citrifolia. B&M's F. brevifolia Nutt. (lectotype at BM) must become F. citrifolia Mill., the earlier name (lectotype at BM, chosen by Dandy). I have further studied F. perforata which DeWolf and Condit have given as the correct name for F. jacquinifolia (which itself should be written jacquiniifolia). The Linnaean name must be typified by an illustration in Plumier associated with the dissertation on the plants of Surinam (1775). Although there is a specimen of F. perforata at LINN (Savage Catalog No. 1240: 9), the only reference in the Dissertation (and the later Amoenitates) in this context is that to Plumier. The specimen at LINN appears to be of the tree of Central America and northern South America, F. pertusa L. f. I should like to acknowledge the consultation and discussion with Dr. Gordon De-Wolf which proved very valuable in application of names in Ficus. A key to the Bahama material follows:

Syconia sessile Ficus aurea Nutt.
 Sycania stalked 2.
 Syconia 7-10 mm. in diameter; petioles less than 1 cm.; blades obovate; lateral veins flush with lower surface; leaf base cuneate

..... Ficus perforata L.

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LORANTHACEAE

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Generic study of Dendropemon, Phthirusa, and Phora-108dendron is needed before good species concepts and correct nomenclature emerge.

ARISTOLOCHIACEAE

Aristolochia passifloraefolia \rightarrow Aristolochia passiflori-113 folia A. Rich. in Sagra. With the exception of the orthograhic change (above) made in accord with rules adopted at the Seattle Congress, the names for Aristolochia species in the Bahamas remain as they were in B&M (Pfeifer, 1966; 1970).

POLYGONACEAE

- 114 Persicaria hydropiperoides \rightarrow Polygonum hydropiperoides Michx.
- 114 Persicaria punctata \rightarrow Polygonum punctatum Ell.
- 115 Persicaria portoricensis Polygonum densiflorum Meissn. Persicaria is treated by Graham and Wood

(1955) as a section of Polygonum.

- 115 Fagopyrum fagopyrum \rightarrow Fagopyrum esculentum Moench. This change is necessary in order to avoid a tautonym.
- Coccolobis lawrifolia \rightarrow Coccoloba diversifolia Jacq. 117 Coccolobis bahamensis \rightarrow Coccoloba tenuifolia L. 117 Coccolobis diversifolia \rightarrow Coccoloba swartzii Meisn. 117 Coccoloba is conserved over Coccolobis. All Coccoloba species therefore should change spelling to conform. The 3 species mentioned above are changed further in accord with Howard (1957). From Howard's treatment also comes the change of citation for Coccoloba uvifera (L.) L., Syst. Nat., ed. 10, p. 1007.

1759.

CHENOPODIACEAE

Dondia linearis \rightarrow Suaeda linearis (Ell.) Moq. 121Dondia fruticosa \rightarrow Suaeda fruticosa (L.) Forsk. 121Dondia insularis \rightarrow Suaeda insularis (Britt.) Urb. et 121 Ekm. Dondia is considered to be a taxonomic synonym

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of Suaeda. Suaeda Forsk. ex Scopoli remains in the list of conserved names even though the reason for its inclusion is no longer valid.

AMARANTHACEAE

- 124 Amaranthus gracilis \rightarrow Amaranthus viridis L. Reed (1968) and Merrill (1936) considered these species to be taxonomic synonyms. Amaranthus viridis L. is the earlier name.
- 126 Centrostachys indica \rightarrow Achyranthes aspera var. indica L. Centrostachys seems better treated as a generic synonym Achyranthes.
- Achyranthes maritima \rightarrow Alternanthera maritima St. 126Hil.
- Achyranthes polygonoides \rightarrow Alternanthera polygo-126 noides (L.) R. Br.
- Achyranthes repens \rightarrow Alternanthera pungens H.B.K. 127This treatment follows Reed, 1968. The epithet pungens is used for the last species rather than the earlier epithet repens because Achyranthes repens is a nomen confusum according to Reed.
- 128 Philoxerus remains the same except for citing an earlier date of publication: Philoxerus vermicularis (L.) R. Br. Prodr. Fl. Nov. Holl. 416. 1810.
- Iresine celosia \rightarrow Iresine diffusa Humb. et Bonpl. ex 128 Willd. (Sp. Pl., ed. 4, 4: 765. 1806). Iresine celosia is an illegitimate name.

NYCTAGINACEAE

- Boerhaavea coccinea Mill. \rightarrow Boerhavia coccinea Mill. 130Boerhaavea erecta L. \rightarrow Boerhavia erecta L. Boerhavia is the original spelling.
- Torrubia obtusata \rightarrow Guapira obtusata (Jacq.) Little. 131
- Torrubia cokeri \rightarrow Guapira obtusata (Jacq.) Little. 131
- 132 Torrubia longifolia \rightarrow Guapira longifolia (Heimerl) Little.
- Torrubia bracei \rightarrow Guapira bracei (Britt.) Little. If 132one considers that blollies are similar to Pisonia

species, then *Torrubia* merges with *Pisonia*. If one wishes to recognize both as distinct genera, then one must take up *Guapira*, an earlier name than *Torrubia*. The Committee for Spermatophytes rejected a proposal to conserve *Torrubia*, hence a paper by Little (1968) which made the appropriate transfers to *Guapira*. It is currently felt that *Torrubia cokeri* is synonymous with *Guapira obtusata*; it has been so treated here. This is an exceedingly variable species with different forms having been named in the past.

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PORTULACACEAE

138 Portulaca phaeosperma → Portulaca rubricaulis H.B.K. Legrand (1952) chose the earlier name for this species.

NYMPHAEACEAE

139 Castalia pulchella \rightarrow Nymphaea pulchella DC. Wood (1959) has treated Castalia as a subgenus of Nym-

phaea.

LAURACEAE

- 143 Ocotea coriacea → Nectandra coriacea (Sw.) Griseb. Recent treatments have merged Ocotea and Nectandra (Wood, 1958; Allen, 1966).
- 144 Persea pubescens \rightarrow Persea palustris (Raf.) Sarg. Kopp (1966) pointed out that *palustris* is an earlier epithet than *pubescens* for this species.

CASSYTHACEAE

144 Cassytha americana \rightarrow Cassytha filiformis L. This change is necessitated because *filiformis* is the earlier epithet.

CRUCIFERAE (BRASSICACEAE)

146 Hitchcock (1945) recognized several varieties of Lepidium virginicum. If this treatment is followed, the Bahama one is var. virginicum.
147 Sinapis arvensis → Brassica kaber (DC.) L. C. Wheeler. Wheeler (1938) thought that Sinapis should

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properly be considered a part of *Brassica*. Sinapis arvensis of B&M cannot be transferred to *Brassica* because there is already a *B. arvensis*. *Brassica kaber* appears to be an older combination than *B. willdenovii* Boiss., as attributed to the Bahamas in

- Adams, 1972.
- 148 Radicula brevipes → Rorippa portoricensis var. pumila (O. E. Schulz) Stuckey. The name used in B&M and its synonyms are misapplied to the Bahamian taxon, according to Stuckey (1972). Stuckey inadvertently maintained a neuter ending for the varietal epithet in his treatment; this is corrected above.
 148 Canara didyma → Coronopus didymus J. E. Smith. Coronopus (1757) is an older name than Canara (1792). Coronopus Zinn. (1757) is conserved over Coronopus Miller (1754), a genus of Plantaginaceae.

MORINGACEAE

151 Moringa moringa \rightarrow Moringa oleifera Lam. In avoid-

ing the tautonym, Moringa moringa, Ernst (1963) has picked up Moringa oleifera for the horseradishtree.

CRASSULACEAE

152 Bryophyllum pinnatum → Kalanchoë pinnata (Lam.) Pers. Treatments of Kalanchoë and Bryophyllum (Baldwin, 1938; Hamet, 1907) have recognized Kalanchoë as the inclusive genus.

ROSACEAE (AMYGDALACEAE)

153 Laurocerasus myrtifolia \rightarrow Prunus myrtifolia (L.) Urb. The cherry-laurel is best considered in the larger genus *Prunus* especially in view of other recent floras

which have so placed it.

CHRYSOBALANACEAE (AMYGDALACEAE) 154 Chrysobalanus pellocarpus \rightarrow Chrysobalanus icaco L. Prance (1972) thought that there were insufficient means to separate C. pellocarpus from C. icaco and has treated them as taxonomic synonyms.

LEGUMINOSAE (MIMOSACEAE)

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155 Pithecellobium is conserved over Pithecolobium, and hence all species change to this orthography. The ram's horn has been a source of confusion for a number of years. Pithecellobium keyense Britt. ex

Coker in Shattuck was proposed to replace P. guadalupense because the latter name was not applicable. Britton did not state why he considered the name inapplicable. In creating the new name, Britton (actually Coker) had no description and hence, created a nomen nudum. This situation was rectified in 1928 by Britton and Rose. Although the type of Mimosa guadalupensis Pers., the basionym, cannot be found at present in the Jussieu Herbarium at P, there appears to be no valid reason why this name cannot be taken up, pending proof that this plant does not represent the concept of the species known as "ram's horn" in the West Indies and South Florida. Isely (1972) referred to specimens at the Delessert Herbarium and at Leiden which should be "critical," but inasmuch as the basionym is linked by Persoon with "Hab ad Guadalupam (Herb, Juss.)," the lectotype material should be sought in the Jussieu Herbarium. Why Britton and Rose indicated that this species was "not Inga guadalupensis Desv." (which is based on the same basionym) is unknown. The only Pithecellobium which occurs on Guadaloupe is this one. I am therefore retaining the name in B&M, but adding the parenthetical reference to the author of the basionym which was omitted in B&M: Pithecellobium guadalupense (Pers.) Chapm.

- 158 The Lysiloma species remain as in B&M (Gillis and Stearn, in press), except for correcting gender to neuter.
- 159 Anneslia haematostoma \rightarrow Calliandra haematomma (Bert.) Benth.
- 159 Anneslia formosa \rightarrow Calliandra formosa (Kunth) Benth. Calliandra is conserved over Anneslia. The

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specific epithet haematostoma in B&M appears to be a misprint, judging from the basionym they cite.
160 Despite efforts of Britton and Rose (1928) to fractionate Acacia into Bahamia and Lucaya, it seems best to maintain the three species of Acacia in B&M under the same names as in the flora: Acacia acuifera, A. choriophylla, and A. macracantha.

- 161 Vachellia farnesiana \rightarrow Acacia farnesiana (L.) Willd. Vachellia is best considered a generic synonym of Acacia.
- 162 Leucaena glauca \rightarrow Leucaena latisiliqua (L.) Gillis et Stearn. Based on typification of an earlier name than either the epithet glauca or leucocephala (deWit, 1961). Gillis and Stearn (in press) have shown that latisiliqua should be taken up.
- 163 Acuan virgatum \rightarrow Desmanthus virgatus (L.) Willd. var. virgatus.
- 163 Acuan depressum → Desmanthus virgatus var. depressus (Willd.) Turner. Desmanthus is conserved over Acuan. The two Bahama plants probably are best considered distinct only at the infraspecific level; therefore the treatment of Isely (1970) is followed.
- 164 Neptunia consult Windler (1966).
- 164 Prosopis consult Johnston (1962).

LEGUMINOSAE (CAESALPINIACEAE)

166 Cassia tora \rightarrow Cassia obtusifolia L. B&M suggest that Cassia tora and C. obtusifolia are synonyms and chose the former as the name to be used in the Bahama flora. Typification shows that such is not the case. DeWit (1955) selected a specimen in the Linnaean

Herbarium as the type of C. tora L., but Brenan (1958) objected to this choice and selected a specimen in the Hermann Herbarium (at BM) as the type. Based on the position of the petiolar gland, length of flowering and fruiting pedicels, anther shape, and presence of a 1.2-2 mm. areole on both

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sides of the seed, Brenan distinguished these two as distinct species. There is probably no Cassia tora in the New World according to Brenan. Chamaecrista chamaecrista \rightarrow Cassia nictitans L. De-168 spite the efforts of Britton and Rose to fractionate Cassia into segregate genera Chamaecrista, Ditremexa, Peiranisia, etc., I maintain Cassia as an inclusive genus. This necessitates different names for the six species placed in Chamaecrista in B&M. Cassia chamaecrista L. is based on a composite collection according to Pennell (1917). Therefore the correct name for the annual plant that is distributed throughout Eastern United States is generally accepted as C. fasciculata Michx. "Chamaecrista chamaecrista" of B&M should be rather the perennial species, Cassia nictitans L. I believe it is necessary to retypify all the names used in this complex in order to apply these names properly. 169 Chamaecrista riparia \rightarrow Cassia caymanensis C. D. Adams. Adams (1970) has shown that Cassia riparia is an illegitimate name, and therefore this plant must have a new epithet in Cassia. Chamaecrista lucayana \rightarrow Cassia lucayana Britt. 169Chamaecrista caribaea \rightarrow Cassia caribaea Northrop. 169Chamaecrista inaguensis \rightarrow Cassia inaguensis Britt. 170Chamaecrista lineata \rightarrow Cassia lineata Sw. These 170species revert to their original names in Cassia. Guilandina crista \rightarrow Caesalpinia bonduc (L.) R. Br. 172Gray nickerbean has been shown by Dandy and Exell (1938) to be Caesalpinia (or Guilandina) bonduc. The epithet crista as used by Linnaeus refers to an Old World species.

Guilandina bonduc \rightarrow Caesalpinia divergens Urb. 172 Guilandina ovalifolia \rightarrow Caesalpinia ovalifolia Urb. 172 Current thought among those working with this group of scrambling shrubs of the coastal regions of the West Indies is to treat them as a section of Caesalpinia, rather than a separate genus Guilandina.

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For some long period of time, *G. bonduc* was used to refer to the yellow-seeded nickerbean. As we have seen, proper typification by Dandy and Exell has shown that the name *bonduc* is misapplied when used thus. Among the synonyms given by B&M for this species, most apply to still other species. *Caesalpinia divergens* seems to be the earliest name available for this species. The yellow-seeded nickerbeans in the Bahamas (with the exception of a new species to be described by Gillis and Proctor from Inagua) can be separated as follows:

173 I accept B&M's treatment of 1920 instead of the later

treatment of Britton and Rose (1928) which recognized the segregate genus Vicarago. I see no reason to separate this taxon from Caesalpinia.

LEGUMINOSAE (FABACEAE)

- 177 Ateleia cubensis \rightarrow Ateleia gummifera (Bert. ex DC.) Dietr. The epithet gummifera is an earlier epithet for this species (Rudd, 1968). . . .
- 178 Yakovlev (1967 a and b) has recognized a number of subspecific units in Sophora tomentosa L. For the moment, these seem difficult to accept as other than insular forms, and therefore I consider the taxon to be the single, variable S. tomentosa throughout the archipelago as in B&M.
- 181 Cracca cinerea \rightarrow Tephrosia cinerea (L.) Pers.
- 181 Cracca cathartica → Tephrosia senna H.B.K. Although Cracca Benth. in Benth. et Oersted is conserved over Cracca L., Tephrosia Pers. is conserved over Cracca L., Needhamia Scopoli, and Reineria Moench. The

correct generic name for the plants in the Bahamas is *Tephrosia*. Because the key to species in B&M is somewhat inadequate, a revised one follows:

1. Leaflets 9-15; racemes opposite the leaves; pod 2.5-4 mm. broad . . *Tephrosia cinerea* (L.) Pers.

182 Sesban sericea → Sesbania sericea (Willd.) DC.
182 Sesban occidentalis → Sesbania emerus (Aubl.) Urb.
182 Agati grandiflora → Sesbania grandiflora (L.) Pers. Sesbania is conserved over Sesban and Agati. The second of the species mentioned above was known only from fruit at the time of the writing of B&M. From collections made recently from the same population, I have determined it to be S. emerus.
183 Stylosanthes — consult Mohlenbrock (1957).

184 Meibomia supina \rightarrow Desmodium canum (Gmel.) Schinz

- et Thell.
- 184 Meibomia tortuosa \rightarrow Desmodium tortuosum (Mill.) DC.
- 184 Meibomia mollis \rightarrow Desmodium glabrum (Mill.) DC. Desmodium is conserved over Meibomia. Supina cannot be used as an epithet for the first species above because it is based on a name which is a later homonym (Hedysarum supinum Sw. non H. supinum Chaix ex Villars). Incanum has often been taken up as a specific epithet for this plant also (based on Hedysarum incanum Sw.), but the basionym is a later homonym for H. incanum Thunb. Desmodium canum is based on the earliest available legitimate
- epithet. Desmodium glabrum is based on an earlier basionym than Meibomia mollis of B&M.
 185 Alysicarpus nummularifolius → Alysicarpus vaginalis (L.) DC. Alysicarpus vaginalis has been used for the false moneywort rather than a combination based on Hedysarum nummularifolium L. Schindler (1926)

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interprets the Linnaean material as being *Indigofera* echinata, in part, and Alysicarpus monilifer, in part, hence the choice of *Hedysarum vaginale* L. as the basionym rather than the earlier one.

186 Ecastophyllum ecastophyllum \rightarrow Dalbergia ecastophyl-

- lum (L.) Taub. *Dalbergia*'s having been conserved over *Ecastophyllum* eliminates the problem of the tautonym in B&M.
- 186 Ichthyomethia piscipula \rightarrow Piscidia piscipula (L.) Sarg. Piscidia has been conserved over Ichthyomethia. (See Rudd, 1969).
- 187 Abrus $abrus \rightarrow Abrus precatorius L$. The later epithet of Linnaeus is used to avoid the tautonym.
- 188 Bradburya floridana \rightarrow Centrosema floridanum (Britt.) Lakela.
- 188 Bradburya virginiana \rightarrow Centrosema virginianum (L.) Benth. Bradburia has been conserved for a genus of Compositae over Bradburya of the Leguminosae. See

also Lakela (1963).

- 191 Canavali lineata \rightarrow Canavalia rosea (Sw.) DC.
- 192 Canavali bahamensis \rightarrow Canavalia nitida (Cav.) Piper. Canavalia is conserved over Canavali. Sauer (1964) revised species of Canavalia, but apparently overlooked Johnston's note (1949b) on publication of names referring to C. maritima. The basionym of this oft-used binomial has been treated as Dolichos maritima Aubl., but Thouars, in making the combination Canavalia maritima, did not in fact cite the Aublet name; hence it is not a new combination, but a new name dating from 1813. Aublet's name cannot then be transferred to Canavalia because it is pre-

ëmpted by the Thouars combination, albeit for the same species. Alas, another name proposed in the interval is the oldest which must be used, *Canavalia rosea* (Sw.) DC. Species 2 of B&M (*Canavali gladiata*) is probably not in the Bahamas. All specimens bearing this determination by either Britton or Mills-

paugh have been annotated by Sauer as C. maritima (=C. rosea).

- 192 Cajan $cajan \rightarrow Cajanus$ cajan (L.) Millsp. Cajanus is conserved over Cajan. The tautonym of B&M can thus be avoided.
- 193 Dolicholus reticulatus \rightarrow Rhynchosia reticulata (Sw.) DC.
- 193 Dolicholus swartzii \rightarrow Rhynchosia swartzii (Vail) Urb.
- 193 Dolicholus minima → Rhynchosia minima (L.) DC. Rhynchosia is conserved over Dolicholus. Dr. John Grear indicates (personal communication) that Rhynchosia caribaea based on Glycine caribaea Jacq. is not in the flora, thus agreeing with B&M. The latter is ironically not native to the New World, but is restricted to South Africa.
- 194 Phaseolus lathyroides \rightarrow Macroptilium lathyroides (L.) Urb. On the basis of having five calyx teeth rather

than four, Macroptilium is segregated from the large genus Phaseolus.

195 Dolichos lablab → Lablab purpureus L. Many workers (including Adams, 1972) use the generic segregate Lablab in preference to Dolichos. If one follows this trend, then the change above is indicated. Otherwise, Dolichos lablab may continue to be used. Dolichos insularis → Oxyrhynchus volubilis Brandegee. This change follows studies by Rudd (1967).
195 Vigna repens → Vigna luteola (Jacq.) Benth. in Mart. Although the epithet repens is the oldest name, it is invalidated in Vigna by V. repens Baker, published in 1876 (Merrill, 1910).

OXALIDACEAE

197 Inoxalis intermedia → Oxalis intermedia A. Rich.
197 Xanthoxalis corniculata → Oxalis corniculata L. Modern treatment of Oxalidaceae would merge Inoxalis and Xanthoxalis into Oxalis (Eiten, 1963).

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LINACEAE

- 200 Cathartolinum curtissii \rightarrow Linum medium var. texanum (Planch.) Fern.
- 200 Cathartolinum corallicola \rightarrow Linum bahamense var. corallicola (Small) Rogers.
- 200 Cathartolinum bahamense \rightarrow Linum bahamense Northrop var. bahamense.
- 201 Cathartolinum bracei \rightarrow Linum bahamense var. bracei (Small) Rogers.
- 201 Cathartolinum lignosum \rightarrow Linum bahamense Northrop. var. bahamense. Rogers (1963; 1968) has restored Linum as the correct name for the yellow-flowered species in the West Indies. I have followed his 1963 treatment chiefly.

ZYGOPHYLLACEAE

202 Guaiacum - consult Porter (1972).

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MALPIGHIACEAE

205 Byrsonima cuneata \rightarrow Byrsonima lucida (Mill.) DC. It is generally agreed that the plum-berry or locustberry should be Byrsonima lucida, based on Malpighia lucida, an earlier epithet than cuneata. But upon whose M. lucida? Most authors attribute the name to Swartz, but his M. lucida is a later homonym for M. lucida Mill. Both names can be typified by material at BM. DeCandolle (1824) specifically indicated the Swartz material as basionym, but it is illegitimate as a later homonym. Kunth (1923) indicated that he thought that M. lucida should be a Byrsonima but did not make the transfer in accord with the Code. Rather than presume to make a new combination at this date

myself, I interpret this situation in the light of history. Swartz undoubtedly knew of Miller's name and probably even examined herbarium material from the Chelsea Physic Garden upon which the lectotype of M. lucida Mill. (chosen by Gillis) has been selected. That he (Swartz) did not specifically indicate that

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he was taking up Miller's name is not important, it seems to me. There is ample precedent with Jacquin and Linnaeus, for instance, in assuming that the later author knew of the earlier work but did not, under existing convention, always cite the author of the earlier binomial, or place of publication. With this assumption, I shall follow Robertson (1971), in attributing the combination to DeCandolle with a lectotype of Miller's name at BM.

SIMAROUBACEAE

211 Cronquist's treatment of Alvaradoa (1944) would make the Bahamian populations Alvaradoa amorphoides subp. psilophylla (Urb.) Cronq.

BURSERACEAE

- 212 Elaphrium inaguense \rightarrow Bursera inaguensis Britt.
- 212 Elaphrium simaruba \rightarrow Bursera simaruba (L.) Sarg. Bursera is conserved over Elaphrium.

POLYGALACEAE

216 Badiera oblongata \rightarrow Polygala oblongata (Britt.) Blake. It seems desirable not to segregate the woody species of *Polygala* into the genus *Badiera*.

EUPHORBIACEAE

- 219 Cicca disticha \rightarrow Phyllanthus acidus (L.) Skeels. This name change follows Webster (1956-58).
- 220 Margaritaria bahamensis \rightarrow Margaritaria tetracocca (Baill.) Webster. Webster (1956-58: J. Arnold Arbor. 38: 66) found that an earlier epithet applied to this species.
- 220 Xylophylla epiphyllanthus → Phyllanthus epiphyllanthus L. This treatment follows Webster (1967).
 221 Phyllanthus pruinosus → Phyllanthus caroliniensis subsp. saxicola (Small) Webster.
 221 Phyllanthus pentaphyllus → Phyllanthus pentaphyllus C. Wright subsp. pentaphyllus. This treatment follows Webster (1970).

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Croton flocculosus Geisl. \rightarrow Croton flavens var. bal-223samiferus (Jacq.) Muell.-Arg. It appears to me that Croton flocculosus is best treated as a variety of the widespread Croton flavens. It matches well the lectotype of Croton balsamiferus Jacq. (lectotype from

- Martinique at BM), the basionym.
- Curcas curcas \rightarrow Jatropha curcas L. Placement of the 225physic-nut in Jatropha seems to be the best placement taxonomically, and also avoids a tautonym.
- 225 Adenoropium gossypifolium \rightarrow Jatropha gossypifolia L. Adenoropium is best treated as a subdivision of Jatropha.
- Argythamnia consult Ingram (1967). 225
- The place of publication of Acalypha alopecuroidea 228Jacq. should be Collect. 3: 196. 1790.
- Acalypha ostryaefolia \rightarrow Acalypha ostryifolia Ridd. 229
- Pera bumelia efolia \rightarrow Pera bumeliifolia Griseb. These 229orthographic changes are required by the Seattle Code.
- Manihot manihot \rightarrow Manihot esculenta Crantz. This 230name is the earliest available to replace the tautonym used in B&M.
- Gymnanthes lucida \rightarrow Ateramnus lucidus (Sw.) Rothm. 232Rothmaler (1944) and Dandy (1967) have resurrected Ateramnus P. Browne to replace the later Gymnanthes Sw. Although I am of the opinion that Gymnanthes should be conserved over Ateramnus, conservation was already rejected once by the Special Committee for Pteridophyta and Phanerogamae (Taxon 3: 241. 1954). There appears to be no choice but to adopt the new combination in Ateramnus.

Adenorima gymnonota \rightarrow Euphorbia gymnonota Urb. 234Adenorima is treated as a section of Euphorbia by Webster (1967) and that treatment is followed here. Arthrothamnus cassythoides \rightarrow Euphorbia cassytho-235ides Boiss. Arthrothamnus differs too little from other forms of Euphorbia to be segregated from it.

235 Tithymalus trichotomus \rightarrow Euphorbia trichotoma H.B.K. Tithymalus is treated by Webster (1967) as a section of Euphorbia.

236 Aklema petiolaris \rightarrow Euphorbia petiolaris Sims. Aklema differs too little from other forms of Eu-

phorbia to be segregated from it.
238 Chamaesyce wilsonii → Chamaesyce lecheoides var. wilsonii (Millsp.) Burch.
238 Chamaesyce lecheoides → Chamaesyce lecheoides Millsp. var. lecheoides.
238 Chamaesyce insulae-salis → Chamaesyce centunculoides (HBK.) Millsp.
238 Chamaesyce exumensis → Chamaesyce lecheoides var. exumensis (Millsp.) Burch. These name changes follow the treatment by Burch (1966).

BUXACEAE

243 Tricera bahamensis \rightarrow Buxus bahamensis Baker in Hook. Tricera is best treated by the earlier name

Buxus (Howard, 1962).

ANACARDIACEAE

Poison-ivy in the Bahamas is the typical subspecies:
 Toxicodendron radicans (L.) Kuntze subsp. radicans (see Gillis, 1971).

CELASTRACEAE

- 247 Rhacoma coriacea \rightarrow Crossopetalum coriaceum Northrop.
- 248 Rhacoma crossopetalum \rightarrow Crossopetalum rhacoma (Sw.) Hitchc.
- 248 Rhacoma aquifolia → Crossopetalum aquifolium (Griseb.) Hitchc.
 248 Rhacoma ilicifolia → Crossopetalum ilicifolium (Poir.) Kuntze. Crossopetalum was revived by Brizicky (1964) as the earliest name for this genus.
 249 Although several recent rorkers have accepted Cassine as a widespread genus that would include Elaeodendron (Adams, 1972 and Ding Hou, 1963).

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I have chosen to follow Robson (1965) to recognize the segregate genus *Elaeodendron* for the Bahamas, thus leaving *Cassine sensu stricto* for a small African genus.

SAPINDACEAE

Thyana discolor \rightarrow Thouinia discolor Griseb. Thou-252inia Poit. is an earlier name than Thyana Hamilt. and is conserved over Thouinia Thunb. ex L.f. Allophylus cominia \rightarrow Allophylus cobbe (L.) Raeusch. 253Leenhouts (1967) makes a strong case for recognizing only one worldwide species in this genus. He has found no morphological gaps which can be used to distinguish separate populations in any geographical sense. Having chosen to recognize only one species, Leenhouts chose A. cobbe as the all-encompassing name from two Linnaean names of the same date. Melicocca bijuga \rightarrow Melicoccus bijugatus (L.) Jacq. 253The correct spelling of this name was worked out by

Brizicky (1963).

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RHAMNACEAE

- 257 Sarcomphalus taylori \rightarrow Ziziphus taylori (Britt.) M. C. Johnston. Johnston's treatment (1964) merges Sarcomphalus with Ziziphus.
- 257 Colubrina reclinata \rightarrow Colubrina elliptica (Sw.) Briz. et Stern.
- 258 Colubrina cubensis \rightarrow Colubrina cubensis var. floridana M. C. Johnston.
- 258 Colubrina colubrina \rightarrow Colubrina arborescens (Mill.) Sarg. These changes follow the monographic treatment by Johnston (1971).

TILIACEAE

263 Triumfetta — consult Ko Ko Lay, 1950.

MALVACEAE

264 Phymosia — consult Fryxell (1971). 266 Gayoides crispum \rightarrow Herissantia crispa (L.) Brizicky.

The earliest generic name available for this segregate of Abutilon is Herissantia (See Brizicky, 1968). Sida ciliaris \rightarrow Sida ciliaris L. var. ciliaris. 267Sida carpinifolia \rightarrow Sida acuta subsp. carpinifolia 268(L.f.) Borss.

- Sida spinosa \rightarrow Sida spinosa var. angustifolia (Lam.) 268 Griseb.
- Sida hederaefolia \rightarrow Sida javanensis Cav. emend. 268Borss. Recent treatments of Sida (Kearney, 1954b; Clement, 1957; Borssum Waalkes, 1966) do not all agree on treatment of the species in the Bahamas. I have followed Clement and Borssum Waalkes here. Malache scabra \rightarrow Pavonia spicata Cav. var. spicata. 271Malache bahamensis \rightarrow Pavonia bahamensis Hitchc. 271Pavonia is conserved over Malache. Kearney's (1954a) treatment is followed here except for one point. He overlooked the fact that Pavonia scabra (B. Vogel) Juble et Quentin is a later homonym of P. scabra Presl. It must be replaced by P. spicata var. spicata. Malvaviscus sagraeanus \rightarrow Malvaviscus arboreus var. 271mexicanus Schlecht. Schery (1942) has found an older name than the one given in B&M. Hibiscus bahamensis \rightarrow Hibiscus brittonianus Kear-272 ney. Because H. bahamensis Britt. is a later homonym, Kearney (1954c) published a new name. 272 Although a number of recent publications place okra in the genus Hibiscus as H. esculentus, Bates (1965) and Borssum Waalkes (1966) retained it in Abelmoschus, as in B&M, on the basis of the spathelike calyces which are basically adnate to the staminal tube and corolla, and which are circumscissilely de
 - ciduous.
- Pariti tiliaceus \rightarrow Hibiscus tiliaceus L. subsp. elatus 273(Hochr.) Borss. Borssum Waalkes (1966) is followed in his treatment of this taxon. Gossypium barbadense \rightarrow Gossypium arborescens var. 274nadam (Watt.) Prockh.

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Gossypium punctatum \rightarrow Gossypium hirsutum var. 274punctatum (Schum.) Hutch. Hutchinson (1943) is followed for the treatment of indigenous cotton species.

STERCULIACEAE

- The use of names in Melochia has been thoroughly 276considered by Goldberg (1967) who considered Moluchia and Melochia synonymous. The only changes from B&M therefore are orthographic. Because the keys in B&M are inadequate, a new key to the Bahama species is given here:
 - 1. Flowers in sessile glomerules, many per cluster; sinus between calyx teeth acute; fruit a 5-parted coccus less than 3.5 mm. in diameter Melochia nodiflora Sw.
 - 1. Flowers pedicelled, 3-10 per cluster; sinus between calyx teeth rounded to truncate; fruit

a 5-angled capsule, greater than 5 mm. in 2. Capsule with rounded angles and unbranched hairs; inflorescences mostly in axillary cymes or appearing terminal; foliage leaves glabrous or with scattered, simple hairs; leaves only slightly lighter in color on lower surface than on upper 2. Capsule sharply angled, with dense stellate hairs; inflorescences mostly opposite the leaves, never terminal; foliage leaves densely stellate; leaves tending toward being dis-

colorous, much lighter on the lower surface than upper due to dense pubescence Melochia tomentosa L.

Waltheria americana \rightarrow Waltheria indica L. An ex-278amination of Linnaean material and resultant lectotypification has resolved the question of a name for

the common Waltheria in accord with Brizicky (1966) and the example used in the International Code (Art. 57). The lectotype (chosen by Gillis) of Waltheria indica L. is in the Hermann Herbarium at BM. The lectotype of Waltheria americana L. is at LINN (Savage Catalog No. 852: 1). They represent the same taxon; both names originate from the same date (1753). Robert Brown (in Tuckey, Narr. Exp. River Zaire 484. 1818) appears to be the first to adopt the name W. indica L. for the combined species, and therefore should be followed. The descriptions and separation of the two species of Waltheria in B&M are ambiguous. The foliage of W. bahamensis is decidedly bronze in the field; herbarium specimens do not show this character well, but it is useful as a field character. The following key should assist in making determinations:

278 Ayenia pusilla \rightarrow Ayenia insulicola Cristobal. Except for an orthographic change necessitated by the Seattle Code, the Ayenia species should be named according to Cristobal (1960).

HYPERICACEAE

280 Ascyrum linifolium \rightarrow Hypericum hypericoides (L.) Crantz. The nomenclature of Ascyrum has undergone much discussion (Adams, 1957; Adams and Robson, 1961). The treatment of Adams and Robson

(ibid.) has been followed here.

FLACOURTIACEAE

284 Myroxylon ilicifolium \rightarrow Xylosma ilicifolia Northrop. 284 Myroxylon bahamense \rightarrow Xylosma bahamensis (Britt.) Standl. Xylosma G. Forst. has been conserved over

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Myroxylon J. R. et G. Forst. as a genus of Flacourtiaceae (Myroxylon L. has been conserved in the Leguminosae). The question of whether these two species are, in fact, distinct still needs to be explored further.

PASSIFLORACEAE

288 Passiflora pallida \rightarrow Passiflora suberosa L. The two names above are synonyms of the same date; they were united by Killip (1938). See also Brizicky, 1961. *Passiflora* species in the Bahamas will be evaluated in a separate paper.

LOASACEAE

290 Mentzelia — consult Darlington (1934).

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LYTHRACEAE

300 Parsonsia parsonsia \rightarrow Cuphea parsonsia (L.) R. Br. Parsonsia is conserved for a genus of Apocynaceae; it therefore cannot be used for a genus of Lythraceae.

COMBRETACEAE (TERMINALIACEAE)

302 Conocarpus erecta \rightarrow Conocarpus erectus L. The generic name Conocarpus should be treated as masculine in accordance with the International Code (Recommendation 75A). In Stearn (1966) the substantive termination *-carpus* is consistently treated as masculine. Stearn (personal communication) suggests that Linnaeus may have treated Conocarpus as feminine by analogy with many classical second-declension names of trees.

MYRTACEAE

303 Eugenia buxifolia \rightarrow Eugenia foetida Pers. The Myrtaceae need to be reworked in the light of Mc-

- Vaugh's generic guidelines and definitions (1956; 1968). The change indicated above is made in accord with his analysis of types (McVaugh, 1973).
- 305 *Pimenta pimenta* \rightarrow **Pimenta dioica** Merr. This change is made to avoid a tautonym.
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- 306 Anamomis longipes \rightarrow Psidium longipes (Berg) Mc-Vaugh var. longipes.
- 306 Anamomis bahamensis \rightarrow Psidium longipes var. orbiculare (Berg) McVaugh.
- 306 Anamomis lucayana \rightarrow Myrcianthes fragrans (Sw.) McVaugh. The first two of these changes is in accord

with the interpretation of these changes is in accord (1973). *Psidium longipes* var. *orbiculare* is further elaborated in the same paper by McVaugh by describing unnamed races which can be distinguished. *Myrcianthes fragrans* is defined in an earlier paper by McVaugh (1963).

ONAGRACEAE

310 Jussiaea suffruticosa \rightarrow Ludwigia octovalvis subsp. sessiliflora (Micheli) Raven. This name change follows the treatments of Ludwigia by Raven (1962; 1968).

UMBELLIFERAE (AMMIACEAE)

313 Foeniculum foeniculum \rightarrow Foeniculum vulgare Gaertn. This change is made to avoid a tautonym.

MYRSINACEAE

- 315 Icacorea paniculata \rightarrow Ardisia escallonioides Cham. et Schl.
- 316 Icacorea guadalupensis → Ardisia obovata Desv. Ardisia is conserved over Icacorea. The Bahama plants need further study and interpretation, but they appear to be named best as stated above.
 316 Rapanea guianensis → Myrsine floridana A. DC. Rapanea guianensis Aubl. may be typified by a speci
 - men of Aublet's in P (lectotype of Gillis). It repre-

sents a plant with lustrous, large leaves from northern South America. The northern West Indian and Floridian species has dull, smaller leaves. Futhermore, it represents the group of species with a globose stigma, a character which has been used to separate *Myrsine* from *Rapanea*. Stearn (1969) made the

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combination Myrsine punctata (Lam.) Stearn for this species, but the name is a later homonym for a species of the Pacific region which had been published several years earlier. The earliest available name for this plant is Myrsine floridana A. DC. If one prefers this species in Rapanea, then its name should be R. punctata (Lam.) Lundell.

PRIMULACEAE

318 Samolus floribundus \rightarrow Samolus parviflorus Raf. This change is made in accordance with Channell and Wood (1959); it is based on an earlier epithet.

SAPOTACEAE

- Chrysophyllum consult Cronquist (1945). 320Sideroxylon foetidissimum \rightarrow Mastichodendron foeti-321dissimum (Jacq.) Cronq. This change is made in accord with the treatment by Cronquist (1946a). Lucuma serpentaria \rightarrow Pouteria domingensis (Gaertn.) 322Cronq. var. domingensis. This change follows the treatment by Cronquist (1946a). Dipholis salicifolia \rightarrow Bumelia salicifolia (L.) Sw. 322Although Cronquist (1945) retained Dipholis as a segregate genus, Stearn (1968) merged it with Bumelia. It is the latter treatment which is followed here.
- 323 Bumelia angustifolia \rightarrow Bumelia celastrina H.B.K.
- 323 Bumelia loranthifolia \rightarrow Bumelia americana (Mill.) Stearn subsp. americana.
- 323 Bumelia bahamensis \rightarrow Bumelia americana (Mill.) Stearn subsp. americana. The Bumelia complex in the West Indies has been treated by Stearn (1968), a treatment followed here. The following key should

help clarify the species in the Bahamas:

 Ovary glabrous; endosperm copious; leaves longer than 7 cm.; terminal shoots never becoming thorns ... Bumelia salicifolia (L.) Sw.
 Ovary pubescent; endosperm little or none;

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leaves shorter than 6 cm.; terminal shoots often 2. Leaves narrow, linear to spathulate, 2-10 mm. broad (juveniles may be larger); fruit oblong; plant inhabiting shores, mangal, and saline areas Bumelia celastrina H.B.K. 2. Leaves obovate to oblanceolate, 1-4 mm. broad; fruits globose; inhabiting uplands Bumelia americana (Mill.) Stearn subsp. americana. Mimusops $emarginata \rightarrow Manilkara$ bahamensis 324(Baker) Lam. et Meeuse. Probably no species in the Bahamas is easier to identify and yet harder to name than the wild dilly! In addition to the long list of synonyms given in B&M, it has been called Achras emarginata (L.) Little, Mimusops jamaiqui (Wright) Dubard, M. jamaiqui subsp. emarginata (L.) Cronq., and Manilkara parvifolia (Nutt.) Dubard, to name

a few. For the moment, I have selected Manilkara bahamensis (Baker) Lam. et Meeuse. Thus, it resides in the same genus preferred by Moore and Stearn (1967) for its close relative, the sapodilla, and also preferred by Cronquist (1945). Sapota achras \rightarrow Manilkara zapota (L.) P. van Royen. 324By the same token as with the wild dilly (above), the cultivated sapodilla has had a variety of names, many of which are permutations of each other. Moore and Stearn (ibid.) analyzed the problem thoroughly and leave a choice of names depending upon the breadth of one's generic concepts. Along with them, I choose the one indicated above.

EBENACEAE

Maba crassinervis -> Diospyros crassinervis (Krug 325et Urb.) Standl. Maba is treated as being a synonym of Diospyros. The name given above in Diospyros is temporary. A new combination will soon be published by Mr. Frank White (Oxford).

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OLEACEAE

328 The Mayepea bumelioides of B&M will be placed in Chionanthus by Stearn at a later date, at which time a new combination will be published.

GENTIANACEAE

331 Based on Shinners's typification (1957), the name of the marsh gentian remains the same, but the author of the binomial and place and date of publication change from what is given in B&M: Eustoma exaltatum (L.) Salisb., Parad. Lond. t. 34. 1806.
331 Sabbatia campanulata → Sabatia stellaris Pursh.
332 Sabbatia simulata → Sabatia stellaris Pursh. Wilbur (1955) and Perry (1971) have studied the taxonomy of Sabatia in detail. As a consequence, one species only is considered to be in the Bahamas. The correct spelling of the generic name should also be noted.

MENYANTHACEAE

333 Nymphoides aureum \rightarrow Nymphoides grayana (Griseb.) Kuntze. This name change is made in accord with the treatment by Ornduff (1969). It should be noted that this so-called endemic Nymphoides (according to B&M) is also found in Cuba.

APOCYNACEAE

- 334 Plumiera obtusa \rightarrow Plumeria obtusa L. var. obtusa.
- 334 Plumiera inaguensis \rightarrow Plumeria obtusa L. var. obtusa.
- 334 Plumiera bahamensis \rightarrow Plumeria obtusa L. var. obtusa.
- 335 Plumiera rubra \rightarrow Plumeria rubra L.
- 335 Plumiera sericifolia \rightarrow Plumeria obtusa var. sericifolia (C. Wright) Woodson. Woodson (1938) reworked the species of Plumeria, taking up the correct spelling of the generic name. He considered several of the "species" of B&M to be insular races of P. obtusa var. obtusa.

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- Woodson (1936) recognized Neobracea bahamensis 335 as endemic, but also noted that there are three other species in Cuba, i.e., it is not a monotypic genus as stated in B&M.
- Stearn (1964) confirmed the name of the periwinkle 336 as Catharanthus roseus (L.) G. Don.
- Echites echites \rightarrow Echites umbellata Jacq. var. um-336 bellata.
- Rhabdadenia paludosa \rightarrow Rhabdadenia biflora (Jacq.) 337 Muell.-Arg.
- Rhabdadenia sagraei \rightarrow Angadenia berteri (A. DC.) 337 Miers.
- Urechites lutea \rightarrow Urechites lutea var. serica Long. 338 Woodson (1936) redefined the generic limits of a number of American Apocynaceous plants. His treatment is followed here. Long (1970a), in studying populations in South Florida, treated Urechites such that the Bahamian populations are recognized as a distinct pubescent population, U. lutea var. sericea.

Because the Apocynaceous vines are not adequately keyed in B&M, and because the names of all of them have been changed, the following key has been prepared for use in separating them:

KEY TO BAHAMIAN APOCYNACEOUS VINES

- 1. Corolla white or ivory, usually more than 5 cm. long; leaves remaining flat or folding along the midrib when pressed; follicles of pair divergent, not tending to curve back like pincers, 4-10 mm.
 - 2. Follicles of a pair widely divergent (greater than 180°); tube of corolla salverform with rotate lobes; cylindric part of corolla 10-15 times the length of the sepals; calyx lobes free nearly to base, linear to linear-lanceolate ... Echites umbellata Jacq. var. umbellata. 2. Follicles of a pair divergent less than 90°; tube of corolla funnelform; cylindric part of

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corolla 2-3 times the length of the sepals; calyx lobes free scarcely more than 2/3 the length, ovate, to 2.5 mm. broad Rhabdadenia biflora (Jacq.) Muell.-Arg. 1. Corolla yellow, usually less than 5 cm. long; leaves tending to curl under at the edges when pressed; follicles of a pair diverging at an angle of less than 60°, curving back to touch near their tips, resembling a pair of pincers, 1.5-3 mm. 3. Vine scarcely 1 m. long; corolla 2-4 cm. long; leaves oblong, usually less than 1 cm. broad; pedicels glabrous; calyx lobes free less than half their length, 1-1.5 mm., acuminate; cylindric part of corolla visible most of its length (i.e., not hidden by sepals); petiole 2 mm. long Angadenia berteri (A.DC.) Miers 3. Vine up to 3.5 mm. long; corolla 4-5 cm. long; leaves obovate or elliptic to 3 cm. broad; pedicels densely pubescent; calyx lobes free nearly to base, 8-12 mm. long, linear; cylindric portion of corolla hidden by sepals; petiole 1 cm. long Urechites lutea var. sericea Long

- 339 Rauwolfia tetraphylla \rightarrow Rauvolfia nitida Jacq. Rao (1956) thought that Rauvolfia tetraphylla is indigenous to the Greater Antilles, Central America, and South America as far as Peru and Venezuela. The Bahamian species is R. nitida, which is not a synonym of R. tetraphylla as suggested in B&M.
- 339 Vallesia glabra \rightarrow Vallesia antillana Woodson. Woodson (1937, 1938b) found that the true Vallesia glabra is a plant of Mexico and the Pacific Coast of South America. The species of southern peninsular Florida and the West Indies that has corollas twice the length of those of V. glabra needed a name. The name V. glabra of B&M is thus misapplied.

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ASCLEPIADACEAE

- 342 Metastelma northropiae \rightarrow Cynanchum northropiae (Schltr.) Alain.
- 342 Metastelma hamatum \rightarrow Cynanchum caribaeum Alain. 343 Metastelma inaguense \rightarrow Cynanchum inaguense (Vail)

Howard et Dunbar.

- 343 Metastelma linearifolium \rightarrow Cynanchum savannarum Alain.
- 343 Metastelma eggersii \rightarrow Cynanchum eggersii (Schltr.) Alain.
- 343 Metastelma palustre \rightarrow Cynanchum angustifolium Pers. Metastelma species are considered synonymous with Cynanchum. (See Woodson, 1941; Alain, 1955). Much work needs to be done on the Bahamian species, but almost certainly several will be united. I shall refrain from making transfers to Cynanchum of several names which have not already been transferred because I feel certain at this point that these names are synonyms of other names in the flora.

(See also Howard and Dunbar, 1964). Merrill and Hu (1949) discovered that Muhlenberg had found Cynanchum angustifolium to be the eariest legitimate name for the last species listed above. They indicated the extensive synonyms for this species, a few of which had never ben included in the standard indices.
344 Philibertella clausa → Sarcostemma clausum (Jacq.) R. & S. Sarcostemma is an earlier name than Philibertella (Woodson, 1941).

CONVOLVULACEAE

- 347 Evolvulus glaber \rightarrow Evolvulus convolvuloides (Willd.) Stearn.
- 347 Evolvulus alsinoides \rightarrow Evolvulus alsinoides var. grisebachianus Meissn. in Mart.
- 347 Evolvulus linifolius \rightarrow Evolvulus alsinoides var. linifolius (L.) Baker. Stearn (1972) has modified the nomenclature of several species of *Evolvulus* in the flora in the course of typification of their names. The

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last taxon listed above is now believed not to occur in the flora.

Jacquemontia jamaicensis \rightarrow Jacquemontia havanensis 348 (Jacq.) Urb. Dr. Kenneth Robertson (personal communication) has pointed out that this name change is required because of an earlier basionym.

- Calonyction aculeatum \rightarrow Ipomoea alba L. 349

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- Calonyction tuba \rightarrow Ipomoea macrantha R. et S. Both 350Ooststroom (1940) and Gunn (1972) have worked with Calonyction. Gunn's nomenclature is followed here.
- Quamoclit quamoclit \rightarrow Ipomoea quamoclit L. 350
- Quamoclit coccinea \rightarrow Ipomoea hederifolia L. Quamo-350clit, like Calonyction, is treated as a section of Ipomoea. (see Ooststroom, 1953).
- Ipomoea cathartica \rightarrow Ipomoea acuminata (Vahl) R. 352et S.
- Ipomoea pes-caprae \rightarrow Ipomoea pes-caprae subsp. bra-352siliensis (L.) Ooststr. This treatment of Ipomoea follows that of Ooststroom (1940) and St. John (1970). The citation for Ipomoea stolonifera in B&M is incorrect; there is an earlier publication date of the combination: Ipomoea stolonifera (Cyrill.) Gmel., Syst. Veg. I: 345. 1796. Ipomoea dissecta \rightarrow Merremia dissecta (Jacq.) Hall. f. 353Merremia is segregated from Ipomoea on the basis of its smooth pollen and its corolla without a red or purple eye (O'Donell, 1941; Ooststroom with Hoogland, 1953; Verdcourt, 1963).
- Dichondra. Consult Tharp and Johnston (1961). 355

CUSCUTACEAE

Cuscuta pentagona \rightarrow Cuscuta campestris Yuncker. 356 This species needed a new name because of confusion in the old one (Yuncker, 1932).

HYDROPHYLLACEAE

Marilaunidium jamaicense \rightarrow Nama jamaicensis L. 357

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Nama is an earlier name than Marilaunidium. Furthermore, Nama jamaicensis L. is the conserved type species.

BORAGINACEAE (EHRETIACEAE) 357 Sebesten sebestena \rightarrow Cordia sebestena L.

- 358 Varronia globosa \rightarrow Cordia globosa var. humilis (Jacq.) Johnston.
- 358 Varronia bahamensis \rightarrow Cordia bahamensis Urb.
- 359 Varronia brittonii \rightarrow Cordia brittonii (Millsp.) Macbride.
- 359 Varronia lucayana → Cordia lucayana (Millsp.) Macbride. Sebesten and Varronia should be treated as synonyms of Cordia (Macbride, 1916; Johnston, 1949).
- 360 Rochefortia bahamensis \rightarrow Rochefortia spinosa (Jacq.) Urb. According to Lefor (1968), the Rochefortia in the Bahamas is not an endemic species, but the same as that found in Cuba.
- 361 There is debate over the generic selection for bay lavender. For the moment, I maintain *Mallotonia*, as in several other recent floras (Gooding, Loveless, and Proctor, 1965; Adams, 1972).
- 362 Heliotropium parviflorum \rightarrow Heliotropium angiospermum Murray. The change of name is required because H. angiospermum is an earlier name.
- 363 Heliotropium inundatum \rightarrow Heliotropium procumbens Mill. Heliotropium procumbens is an earier name for the same species. Both names can be typified by specimens at BM; the lectotypes have been selected by me.

VERBENACEAE

- 365 Valerianoides fruticosa \rightarrow Stachytarpheta fruticosa (Millsp.) B. L. Robinson.
- 366 Valerianoides jamaicensis \rightarrow Stachytarpheta jamaicensis (L.) Vahl. Stachytarpheta is conserved over Valerianoides.

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- 366 Bouchea prismatica \rightarrow Bouchea prismatica var. longirostra Grenzen. This treatment follows the revision of Bouchea by Grenzenbach (1926). Moldenke (1971) believes that the typical variety is also present in the Bahamas.
- 367 Priva consult Kobuski (1926).
- 368 Lippia stoechadifolia \rightarrow Phyla stoechadifolia (L.) Small.
- 368 Lippia nodiflora \rightarrow Phyla nodiflora (L.) Greene var. nodiflora.
- 369 Lippia reptans \rightarrow Phyla nodiflora var. reptans (H.B.K.) Moldenke. These changes are made in accord with the treatment of *Phyla* by Moldenke (1965). Lippia geminata of B&M is probably not found within the archipelago. The appropriate treatment of this binomial would be Lantana microcephala A. Rich. in any event.
- 369 According to treatment by Long (1970a) our variety of *Lantana ovatifolia* would be the typical variety (var. *ovatifolia*).
- 371 Using Moldenke's treatments (1958a, b, and c) of *Citharexylum*, I have prepared the following key to distinguish the Bahamian species:

Pedicels less than 1.2 mm. long during anthesis; pyremes 2-loculate, fruit not shiny; leaves \pm pilose, closely reticulate-veined, the reticulation prominent above and below *Citharexylum fruticosum* L. Pedicels 2 mm. long or more during anthesis; pyremes 1-loculate, fruit shiny; leaves glabrous, widely reticulate-veined, reticulation obscure above *Citharexylum caudatum* L.

Moldenke (1958a; 1971) has considered 5 infraspecific taxa of *C. fruticosum* to exist in the Bahamas: var. *fruticosum*, var. *smallii* Moldenke, var. *subvillosum* Moldenke, var. *villosum* (Jacq.) O. E. Schultz, and forma *bahamense* Moldenke. Having made field

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studies on the characters upon which these taxa are based, I consider these to be insular forms or populations without names. For those who wish to name these variations, an appropriate key is found in Moldenke (1958a).

- Callicarpa consult Moldenke (1936). 373
- Petitia consult Moldenke (1937). 373
- Volkameria aculeata \rightarrow Clerodendrum aculeatum (L.) 374 Schlecht. var. aculeatum. Volkameria is treated by Moldenke (1971) as a section of Clerodendrum. The place of citation for C. aculeatum is incorrect in B&M. The author of the combination is Schlechtendahl, and the citation is Linnaea 6: 750. 1831. $Clerodendrum \ fragrans \rightarrow Clerodendrum \ philippinum$ 375 Schauer. Howard and Powell (1968) found that C. fragrans was an illegitimate name. Moldenke (1971) considers the Bahamian population to be var. pleniflorum Schauer.
- 375 Avicennia nitida \rightarrow Avicennia germinans (L.) L. Stearn (1958) found this earlier epithet which applies to the species of black mangrove in the West Indies, but failed to note that its earliest combination was by Linnaeus himself.

LABIATAE (LAMIACEAE)

- Melosmon cubense \rightarrow Teucrium cubense Jacq. Epling 376 (1925) united Melosmon and Teucrium.
- Leonurus consult Epling (1925). 377
- The place of publication for Leonotis nepetifolia (L.) 378 R.Br. is the Prodromus florae Novae Hollandiae, p. 504. 1810, and not as given in B&M (Epling, 1925).
- In Epling's treatment (1938-39), Salvia serotina L. 378 and S. micrantha Vahl (indicated as synonyms in B&M) were separated on rather minor characters. Through the courtesy of Dr. Mildred Mathias and Dr. Raymond Harley, I have seen an unpublished manuscript of Epling and Carlos Jativa in which

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these species were reunited. It seems best to continue to treat them as synonymous. (Permission of Carlos Jativa to refer to this unpublished material is acknowledged with appreciation.)

On the basis of rather minor characters of the calyx, 379

Shinners (1962) reworked the Micromeria brownei complex, recognizing the Bahamian populations as M. bahamensis Shinners. Because my own collections from Inagua more closely resemble the taxon which Shinners cites from Hispaniola, I believe more work needs to be done before the matter is resolved. Chiefly because of the minor nature of the characters which are used in defining Shinners's species, I continue to recognize a broadly treated M. brownei (Sw.) Benth.

SOLANACEAE

- Physalis angulata \rightarrow Physalis angulata L. var. angu-381lata.
- Physalis turbinata \rightarrow Physalis cordata Mill. 382
- Physalis pubescens \rightarrow Physalis barbadensis Jacq. 382These changes are in accord with the treatment by Waterfall (1967).
- Solanum verbascifolium \rightarrow Solanum erianthum D. 383Don. Roe (1968) found that the old name for this plant did not apply to the species in our flora. 385 Lycium spathulifolium \rightarrow Lycium tweedianum var. chrysocarpum (Urb. et Ekm.) Hitchc. In the monograph of Lycium (Hitchcock, 1932), the Bahamian plant required a name change. Although it is possible that the species of the Florida Keys (L. carolinianum) Walt.) is in the Bahamas, it has yet to be found.

SCROPHULARIACEAE

Maurandya antirrhinaeflora \rightarrow Maurandya antirrhini-388flora H. et B. ex Willd. This orthographic change is required by the Seattle Code. I can now report this species to be on the far side of the archipelago from New Providence as recorded in B&M: Gillis 11780 from Grand Turk.

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Bramia monnieri \rightarrow Bacopa monnieri (L.) Pennell. 389Bacopa has been conserved over Brami and Moniera. It is an earlier name than Bramia.

390Although Pennell (1935) segregated Erinus from Mecardonia, I believe that Mecardonia is best treated

as an inclusive genus, thus maintaining Mecardonia procumbens (Mill.) Small as in B&M.

- Afzelia cassioides \rightarrow Seymetria cassioides 392(Walt.) Blake. Seymeria is conserved over Afzelia.
- Buchnera elongata \rightarrow Buchnera floridana Gandoger. 393 Philcox (1965) thinks that B. elongata is a misapplied name for the Florida and Bahama populations.

LENTIBULARIACEAE

- Setiscapella subulata \rightarrow Utricularia subulata L. 394
- Stomoisia cornuta \rightarrow Utricularia cornuta Michx. Tay-395 lor (1967) includes Setiscapella and Stomoisia within Utricularia.

BIGNONIACEAE

Macrocatalpa punctata \rightarrow Catalpa punctata Griseb. 397 var. punctata. This change is made in accord with the treatment of Catalpa by Paclt (1952).

PEDALIACEAE

Sesamum orientale \rightarrow Sesamum indicum L. These 399 names are synonymous binomials of the same publication date. Sesamum indicum L. has been used more commonly than the other name. Hill (1939) pointed out that DeCandolle (Pl. Rar. Jard. Genève 18, t.5 -1889) was the first to unite the two names under Sesamum indicum.

ACANTHACEAE

Blechum brownei should be retained despite the at-401tempt of some to change the name of this species to Blechum pyramidatum. The Linnaean binomial is Ruellia blechum. Lamarck renamed the species Bar-

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laria pyramidata, but this name is illegitimate, being superfluous when published. Jussieu later published a new name in *Blechum*; this is accepted because the tautonym which would be created by transferring the Linnaean epithet is illegitimate (Bremekamp, 1938;

- Long, 1970b).
- 402 Gerardia droseroides \rightarrow Stenandrium droseroides Nees in DC.
- 402 Gerardia bracteosa \rightarrow Stenandrium bracteosum (Britt. et Millsp. Britt. ex Leonard). Stenandrium is conserved over Gerardia.
- 403 Anthacanthus spinosus \rightarrow Oplonia spinosa (Jacq.) Raf. Stearn (1971) has studied the generic complex of which this species is a part and has recognized our plant to be an *Oplonia*.
- 404 Diapedium assurgens → Dicliptera assurgens (L.) Juss. Dicliptera is conserved over Diapedium (see also Long, 1970b). I have chosen the lectotype to be at LINN (No. 28:23 according to the Savage Catalog, 1945).

RUBIACEAE

- 407 The Rubiaceae are in need of in-depth treatment as a whole. Names accepted here may be subject to revision as more work is done.
- 408 Oldenlandia callitrichoides → Hedyotis callitrichoides (Griseb.) Lewis. Merrill and Metcalf (1942) and Lewis (1961) have united Oldenlandia and Houstonia with Hedyotis. Lewis's treatment is followed here.
 409 Rachicallis americana → Rhachicallis americana (Jacq.) Hitchc. The original spelling of the generic name has been restored. Despite the fact that it has been

written without the first "h" ever since the original publication, there seems no reason not to accept the original orthography considering the Greek origin. Nickerson and Tripp (1973) have reported this species to have either male or perfect flowers, never female.
410 Randia mitis → Randia aculeata L. These two names,

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synonyms of the same date of publication, have been united under R. aculeata.

- 411 Catesbaea parviflora \rightarrow Catesbaea parviflora var. septentrionalis Krug et Urb. ex Urb. The Bahamian populations fit this variety better than do the typical species form.
- 412 Hamelia erecta \rightarrow Hamelia patens Jacq. These names are synonyms of the same date of publication. Thomas Elias (personal communication) has informed me that L'Héritier was the first to unite them, and should be followed.
- 413 Guettarda taylori \rightarrow Guettarda nashii Britt. et Millsp.
- 413 Guettarda inaguensis → Guettarda nashii Britt. et Millsp. There does not seem to be sufficient difference to maintain three distinct species of Guettarda supposedly endemic to the vicinity of Matthew Town, Inagua. Having studied both the type specimens (at NY) and material in the field, I have concluded that

Britton and Millspaugh named specimens, not species. Guettarda inaguensis is represented by a type that appears to have come from an aberrant form with long lengths of bare branches and leaves only near the tips. Guettarda taylori is represented by a type that has no flowers left and for which no fruits were ever known. Because of the inadequancy of these two specimens, it seems best to select the name for the united species by the type possessing the most adequate material. Inasmuch as these three species names originate from the same data, I am choosing G. nashii as the name to be used when all three are united. The populations of Guettarda in the vicinity

- of Matthew Town, although variable, appear to me to be best treated as a single species.
- 414 Stenostomum lucidum \rightarrow Antirhea lucida (Sw.) Hook. f. in Benth. et Hook. f.
- 415 Stenostomum myrtifolium \rightarrow Antirhea myrtifolia (Griseb.) Urb.

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Stenostomum densiflorum \rightarrow Terebraria resinosa 415 (Vahl.) Sprague. Stenostomum as used by B&M is better divided into Antirhea and Terebraria. Antirhea is an older name than Stenostomum and hence must be the name used for those species traditionally placed in Stenostomum. The tortuous history of the name of Terebraria resinosa is recounted thoroughly by Sprague (1932). Sprague recognized two West Indian species of Terebraria, differing only in shape of the areoles of the leaf venation. In his treatment, the Bahamian population would be T. densiflora. I consider these differences to represent only insular forms, not worthy of nomenclatural separation. A key to the species in the Bahamas of the old Stenostomum follows:

- 1. Ovary 2 (-4) loculate; flowers without bracts; anthers half-exserted; stipules deciduous; foliage without resinous secretions Antirhea
 - lucida (Sw.) Hook. f. in Benth. et Hook. f.
- 1. Ovary 4-6 loculate; flowers subtended by minute bracts; anthers included; stipules persistent; foliage resinous-viscid 2.
 - 2. Leaves 3 cm. long or less, elliptic to obovateoblong; diffusely-branched shrub with leaves crowded near ends of branches; midvein very pronounced, often white; 2-4 flowers per branch of inflorescence; stipules ovate, not forming a collar around stem; inflorescences paired on either side of stem, but not branched
 - Antirhea myrtifolia (Griseb.) Urb.
 - 2. Leaves 4-9 cm. long, oblong-lanceolate; coarsely-branched shrub or small tree with leaves widely scattered; midvein only slightly more pronounced than lateral veins; more than 6 flowers per branch of inflorescence; stipules forming a collar 2-4 mm. broad

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around stem; inflorescence bifid with flowers only on inside (adaxial surface) of branches Terebraria resinosa (Vahl) Sprague.

419 Psychotria undata → Psychotria nervosa Sw. Jacquin described P. undata in the Plantarum rariorum horti caesarei schoenbrunnensis. According to Stafleu (1967), the title page date of 1798 is probably in error, and actual date of publication may have been as late as 1803. In any event, Swartz in his Prodromus (1788) published the name Psychotria nervosa for the same species, clearly the earliest date of publication. Psychotria nervosa Benth. (1841) and P. nervosa D. Don (1825) are later homonyms.
420 Ernodea cokeri → Ernodea taylori Britton.

421 Ernodea nashii \rightarrow Ernodea millspaughii Britton. It is difficult to make hard-and-fast decisions on the Ernodea problems in the Bahamas at this juncture. Whether E. littoralis and E. angusta are truly distinct

is questionable. Long (1970a) has treated E. angusta as a variety of E. littoralis which may be the best way to handle these perplexing taxa. Until intensive study is made of these two species with comparisons to the other Ernodea taxa in the Bahamas, I shall continue to recognize these two as species. Distinctions among the other four species do not seem to hold up when examined under field conditions. Although more study will be carried out on Ernodea in the Bahamas, under a tentative arrangement which seems reasonable at this stage, E. cokeri is considered to be a synonym of E. taylori, and E. nashii is merged with E. millspaughii. The latter name was chosen from the two originating at the same date of publication because it is represented by the type specimen possessing both flowers and fruits. The type of E. taylori has no flowers at all; the type of E. nashii must have had flowers at the time Britton described the species, but they are missing from the type

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specimens now (types are at NY). The differences as observed in the type specimens of these microspecies seem inadequate for maintenance in this exceedingly variable genus (also see Britton, 1908, for descriptions of "races" within this complex). A key to identify the Bahamian species of *Ernodea* within my species concept at the moment follows:

- 1. Calyx lobes nearly as long as the fruit, or 2. Corolla white to very pale pink Ernodea littoralis Sw. 2. Corolla red Ernodea angusta Small. 1. Calyx lobes less than half as long as the 3. Leaves 6-8 mm. wide Ernodea millspaughii Britton. 3. Leaves 1-3 mm. wide Ernodea taylori Britton. Borreria saxicola \rightarrow Borreria brittonii Standl. Un-422like Ernodea, the eight species of Borreria in the Bahamas — or, at least most of them — seem to be good biological species with a high degree of endemism in the southern islands, especially Inagua and the Caicos group. Whereas actual treatment of this genus is deferred for the moment, one name change needs to be cited. Following Standley (1931), the name B. saxicola Britt. is replaced because it is a later homonym.
- 423 Spermacoce consult Bacigalupo (1972).

CUCURBITACEAE

426 Anguria pedata \rightarrow Psiguria pedata (Jacq.) Howard.

In his treatment of modern names for plants discussed in Jacquin's *Selectarum*, Howard (1973) found that the name *Anguria* Jacq. was a later homonym for *Anguria* Mill. The next available generic name is *Psiguria*; Howard made the necessary new combinations for this species.

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LOBELIACEAE

428 Lobelia — consult McVaugh (1943).

GOODENIACEAE

429 Scaevola plumierii → Scaevola plumieri (L.) Vahl. This orthographic change is made to conform to the present International Code.

> COMPOSITAE (AMBROSIACEAE AND CARDUACEAE)

- 431 Xanthium chinense \rightarrow Xanthium strumarium L. Xanthium strumarium is an earlier name than X. chinense.
- 432 Ambrosia paniculata \rightarrow Ambrosia artemisiifolia L. I have selected a lectotype of Ambrosia paniculata from material in the Michaux Herbarium at Paris. Furthermore, I have examined the lectotype of A. *artemisiifolia* which was selected by Payne (1970) at LINN, and concur with Payne that these plants are conspecific. The Linnaean name is obviously the older one and should be used.
- 432 Iva consult Jackson (1960).
- 436 Ageratum latifolium \rightarrow Ageratum conyzoides subsp. latifolium (Cav.) M. F. Johnson. This name change has been made in accord with the treatment by Johnson (1971). The typical subspecies has also been reported from the Bahamas, thus adding a taxon to the flora.
- 440 Chrysopsis graminifolia \rightarrow Heterotheca graminifolia (Michx.) Shinners. Shinners (1951), Wagenknecht (1960), and Harms (1964) have argued for the merger of Heterotheca and Chrysopsis.
- 441 Aster bracei → Aster tenuifolius var. aphyllus Long. Long (1970a) has treated the Bahamian populations in connection with those of South Florida which he was studying. This taxon seems best treated as a variety of the more widespread A. tenuifolius.
 443 Leptilon linifolium → Conyza floribunda H.B.K.

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CUPRESSACEAE (PINACEAE)

462 Juniperus lucayana \rightarrow Juniperus bermudiana L. More work needs to be done on typification and on population studies in Juniperus to place the Bahamian plant

properly. For the moment, it is treated in accord with Moore, 1966.

CYCADACEAE

463 A thorough monograph of Zamia is needed. In a manuscript by Chamberlain, left unpublished at his death, Z. lucayana has been referred to the Cuban Z. guttierezii Sauv. So little material of this plant, as well as of Z. angustifolia and Z. tenuis, is available at this time, that it is not appropriate to make a nomenclatural judgment now. The recent rediscovery of the Long Island population of "Z. lucayana" by S. R. Hill (in press) and its subsequent cultivation will help to make material available for further

study.

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STONE'S PLANTS OF SOUTHERN NEW JERSEY: A REPRINT¹

To those who had always considered Witmer Stone as an ornithologist — and one of the country's greatest — the appearance in 1911 of his "Plants of Southern New Jersey" came as a distinct surprise. Had they known more about the man they would have realized that he was one of the last of the all-around naturalists, interested in mammals, insects and plants as well as birds. The recent facsimile reprint of Stone's book, by the Quarterman Publications, Inc., of Boston, makes available once more a work which for more than sixty years has been the standard reference for everyone who is interested in the flora of the Pine Barrens, as well as the other plant provinces of southern New Jersey.

Originally published as Part II of the Annual Report of the New Jersey State Museum, this important volume

has for many years been out of print and has, indeed, become something of a collector's item.

Although one can not be other than grateful that this flora is once again in circulation, it is to be regretted that the Foreword was not written by a professional botanist, preferably one who was intimately acquainted with Witmer Stone.

Since this reprint is a facsimile, every word, every punctuation mark and every misprint appears exactly as it did in the original. There are numerous discrepancies between its nomenclature and that in use today. It would have been helpful to the reader if Elizabeth M. Woodford, who wrote the Foreword, had explained the reasons for this.

Partly because he was a zoologist and partly because of his friendship with Dr. N. L. Britton of the New York Botanical Garden, Stone's treatment of plant names follows the now-abandoned American Code of Botanical Nomen-

'Stone, Witmer. The Plants of Southern New Jersey. Reprint. 1973. Quarterman Publications, Inc., Boston, Massachusetts. 828 pp. Illust. \$25.00.

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clature. This code, like that of the zoologists, permits the use of tautonyms or duplicate binomials. Hence we find in Stone such combinations as Blephariglottis blephariglottis, Hepatica hepatica, Linaria linaria and others. The American Code never embraced the principle of the conservation of generic names and Stone therefore consistently employed what he considered to be the earliest generic epithets. As a consequence we have scores of generic names which are unfamiliar to most present-day taxonomists. A few examples will suffice: Spathyema for Symplocarpus, Juncoides for Luzula, Abama for Narthecium, Vagnera for Smilacina, Gyrostachys for Spiranthes, Hicoria for Carya, Ammodenia for Arenaria (peploides), Meibomia for Desmodium, etc. Fortunately most of the presently accepted names are cited in synonymy (although not always with the correct authority), but it seems a pity that a republication of this work should not have suggested some revision and updating of its nomenclature. It might also have corrected

such misprints as "Sandy Hood" for "Sandy Hook" (page 432) and "dandelon" for "dandelion" (page 817).

Mrs. Woodford states that Stone's collection of 12,000 specimens went to the herbarium of the Academy of Natural Sciences of Philadelphia. Such is not the case. Realizing that many of his duplicates were already in the Academy and that he had frequently been in the field with members of the Philadelphia Botanical Club whose specimens had likewise been deposited there, I suggested to Dr. Stone that he leave his herbarium to the University of Pennsylvania. He readily agreed, and in the fall of 1942 the University received his collection of more than 14,000 sheets, rich not only in plants from southern New Jersey, but also in material from northern Pennsylvania. It was my pleasant task to supervise the incorporation of this collection into the herbarium of the University.

Witmer Stone once told me that his manuscript for the New Jersey Flora had been prepared in a little more than four months. Doubtless he had made some preliminary